

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant(s): Herbert BRUDER et al.
Int'l Application No.: PCT/EP2004/000754
Application No.: **NEW APPLICATION**
Filed: August 4, 2005
For: VOXEL-DRIVEN SPIRAL RECONSTRUCTION FOR
CONE-BEAM COMPUTER TOMOGRAPHY

**INFORMATION DISCLOSURE STATEMENT
(SUBMISSION CONCURRENT WITH THE
FILING OF A NEW PATENT APPLICATION)**

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Randolph Building
401 Dulany Street
Alexandria, VA 22314
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August 4, 2005

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications, or other information submitted for consideration by the Office are listed on PTO-1449, attached hereto.

II. COPIES

- ☐ Submitted herewith is a legible copy of (i) each U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.
- ☒ This application is a National Phase of a PCT application. All of the documents listed on the PTO-1449 are not enclosed because they were cited in the International Search Report and copies should be forwarded from the International Search Authority. If copies are needed, please contact the undersigned.

- ☐ Because the present application is being filed after June 30, 2003, no copies of the U.S. patents or U.S. patent application publications which are listed on the attached Form 1449 are enclosed pursuant to the waiver of 37 C.F.R. § 1.98(a)(2)(i). Any foreign patent documents or non-patent literature listed on the attached Form 1449 are enclosed herewith.

III. CONCISE EXPLANATION OF THE RELEVANCE
(check at least one box)

a. ☐ **DOCUMENTS IN THE ENGLISH LANGUAGE**

The attached patents, publications, or other information in the English language do not require a statement of relevancy.

b. ☒ **DOCUMENTS NOT IN THE ENGLISH LANGUAGE**

A concise explanation of the relevance of all patents, publications, or other information listed that is not in the English language is as follows:

Many of the documents have been discussed in the PCT Search Report, the PCT Preliminary Examination Report, and/or throughout the specification. The PCT Search Report and PCT Preliminary Examination Report, along with a German translation aid translating key terms into English, indicate the degree of relevance found by the PCT Office, thereby satisfying the requirement for a concise explanation. See MPEP 609(A)(3).

c. ☒ **ENGLISH LANGUAGE SEARCH REPORT**

An English language version of the search report or action that indicates the degree of relevance found by the foreign office is attached, thereby satisfying the requirement for a concise explanation. See MPEP 609(A)(3).

d. ☒ **OTHER**

The following additional information is provided for the Examiner's consideration.

International Search Report, International Preliminary Examination Report, German Office Action and German Translation Aid.

New PCT National Phase Application
Docket No. 32860-000908/US

FEES

This Information Disclosure Statement is being filed concurrently with the filing of a new patent application; therefore, no fee is required.

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule and charge the appropriate fee to Deposit Account No. 08-0750.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 08-0750 for any additional fees required under 37 C.F.R. § 1.16 or under § 1.17; particularly, extension of time fees.

Respectfully submitted,

HARNESS, DICKEY & PIERCE, P.L.C.

By: _____

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Enclosures:

- ☒ Form PTO-1449(s)
- ☒ Documents
- ☒ Foreign Search Reports, German Office Action and German Translation Aid

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|--|--|--|---------------------------------------|--|------------------------------------|--|
| Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary) | | | ATTY DOCKET NO. 32860-000908/US | | APPLICATION NO. NEW APPLICATION | |
| | | | APPLICANT(S) Herbert BRUDER et al. | | CONF. NO. Unknown | |
| | | | FILING DATE August 4, 2005 | | GROUP Unknown | |

| U.S. PATENT DOCUMENTS | | | | | | |
|-----------------------|--------------------|------------|-----------------|-------|--------------|-------------------------------|
| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROPRIATE |
| | US 6,839,400 B2 | 01/04/2005 | BRUDER et al. | | | |
| | US 6,282,256 B1 | 08/28/2001 | GRASS et al. | | | |
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| FOREIGN PATENT DOCUMENTS | | | | | | | |
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| | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB CLASS | TRANSLATION | |
| | | | | | | YES | NO |
| | DE 101 59 927 A1 | 06/26/2003 | GERMANY | | | | |
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| | EP 1 096 426 A1 | 10/25/2000 | EUROPE | | | | |
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| OTHER DOCUMENTS | |
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| (Include Name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published. | |
| | Henrik TURBELL, "Cone-Beam Reconstruction Using Filtered Backprojection," Linköping Studies in Science and Technology – Dissertation No. 672, Linköping, February 2001 |
| | M. KACHELRIEß et al., "Advanced single-slice rebinning in cone-beam spiral CT", Med. Phys. 27 (2000) S. 754-772 |
| | K. STIERSTORFER et al., "Segmented Multiple Plane Reconstruction – A Novel Approximate Reconstruction Scheme for Multislice Spiral CT", Institute of Physics Publishing, Physics in Medicine and Biology, Phys. Med. Biol. 47 (2002), S. 2571-2581 |
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| | K. SOPURBELLE, IMP, Universität Erlangen, Dissertation, Prüfungsdatum 25, März 2002, Seiten 33-37 |
| | Avinash C. KAK et al., "Principles of Computerized Tomographic Imaging", IEEE Press, New York 1987, S. 49-112 |
| | K. SOURBELLE et al, "Performance Evaluation of Exact Cone-Beam Algorithms for the Long-Object Problem in Spiral Computed tomography", Proceedings of Intern. Meeting on Fully 3-D Image Reconstruction in Radiology and Nuclear Medicine, Pacific Grove, CA USA, 10-30-11/2/2001, S. 153-156 |
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|----------|-----------------|
| EXAMINER | DATE CONSIDERED |
|----------|-----------------|

EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.